

24 Aug 1989

RACAA-A
REGULATOR, LINE

1. GENERAL. This procurement requires a single-phase line voltage regulator.

2. CLASSIFICATION. Type II, Class 3, Style E, and Color R in accordance with MIL-T-28800 for shipboard applications. The convertible/rackmountable requirement is invoked.

3. OPERATIONAL REQUIREMENTS. The equipment shall be capable of regulating power line voltages in accordance with the following minimum specifications.

3.1 Output specifications.

3.1.1 Voltage. 103 to 127 Vac continuously adjustable.

3.1.2 Current rating. 50A irrespective of load conditions.

3.1.3 Correction rate. 42 msec + 25 msec/1V change.

3.1.4 Regulation. $\pm 0.25\%$ of output voltage setting.

4. GENERAL REQUIREMENTS.

4.1 Power source. MIL-T-28800 nominal power source requirements are invoked except operation at 50 and 400 Hz is not required and the operating voltage range is limited to 103.5 to 126.5V. Maximum power consumption: 6 kW.

4.2 Weight. 25 kg (55 lb) maximum.

4.3 Lithium batteries. Per MIL-T-28800, lithium batteries are prohibited without prior authorization. A request for approval for the use of lithium batteries, including those encapsulated in integrated circuits, shall be submitted to the procuring activity at the time of submission of proposals. Approval shall apply only to the specific model proposed.